

PAD PLANE PC Board LEAK CHECK

SECTO	OR type: Outer Inner Serial No
After	answering each of the following questions please initial your name.
MAX	IMUM DEFLECTION MEASUREMENT
1.	Lay board on surface table and measure maximum gap between table and board: (Take measurement from both sides)
	Is the gap LESS than 0.500 in? Yes No
	If the answer to item 1 is NO, stop checking and see instructions.
LEAK	<u>CHECK</u>
2.	Connect the board test fixture to the Assembly Shop vacuum bench which has a 30 cfm roughing pump. Tape the edges of the pad plane into the test fixture and then press a dot of Duxseal over the corners where one piece of the tape crosses over another. Open the valve to the bench and read the thermocouple gauge #2 on the bench manifold.
	Does the thermocouple gauge read 10 microns (millitorr) or below?
	Yes No
3.	If the answer to question 2 is NO , rub the tapes down with a fingernail around all edges again. Recheck all locations where one piece of the tape crosses over another. Be sure that all corners are sealed with Duxseal. Check with helium leak detector for leak locations along the sealed region.after possible shield area leaks are eliminated.
	After possible leak is eliminated does the thermocouple gauge reading is 10 microns or below?
	Yes No
	Write down the reading:microns

INSTRUCTIONS

If the answer to item 3 is \underline{YES} , attach this inspection record and place board in pre-assembly storage.

If the answer to item 1 is **NO** tag board with **REJECTED - WARPED**.

If the answer to 3 is <u>NO</u> tag board with <u>REJECTED-NOT LEAK</u>. <u>TIGHT</u>. Determine where the leaks are and attach this inspection record with a diagram showing the location(s) of the leak(s) and place board in to-be-repaired storage.

Passed		Rejected		
Inspectors Signature_		Inspection date:		



PAD PLANE PC Board DIMENSIONAL CHECK

SECT	OR type: Outer	Inner	Serial No			
	CAUTION: Do not mar, scratch or otherwise disturb the copper surface of the Pad Plane					
After	answering each of the	following question	s please initial y	our name.		
BOA	RD THICKNESS	S MEASUREM	ENT			
OU'	TER SECTORS: Refer	to dwg # 24A4465	for locations to b	e measured	1	
INN	IER SECTORS: Refer t	to dwg # 24A	for locations to l	be measure	d	
1.	Record thickness measures	surements in 5 place	s indicated on in	spection dr	awing.	
	1in	2in	3	in		
	4in	5in				
	Measure the thickness Are all measurements			36 inches?	NER: _ NO	
2.	Is the variation in boar	d thickness less thar	0.002 inches?	YES	_NO	
	If either item 1 or 2 is follow the instructions		ontinue the dimer	nsional chec	cks and	
CMM MEASUREMENTS (using "Vision" machine)						
3.	Are all pads located w (Measured with respecthe instructions on page	et to fiducials). If no	s inches) of their s, stop the inspec	tion and fol	low	
				YES	_ NO	
AT THIS POINT DRILL THE REFERENCE HOLES FOR BOTH THE BONDING AND SOLDERING FIXTURES.						

4.	Are the bonding fixture holes within 0.025 mm (0.001 inclideal position?	nes) of YES	NO
5.	Are the soldering fixture holes within 0.1 mm (0.004 inche ideal position?		NO
	If the answer to 4 or 5 is no, inspect the appropriate jig for	YESwear or dam	
6.	Choose 15 Connector locations. Determine the footprint locations of four corner solder pads. Measuring with respective fixture reference holes, are the connector pad footprints with inches) of ideal position?	t to the bond	ing
		YES	NO
<u>INST</u>	TRUCTIONS:		
	If any item (1 - 6) is marked NO tag the board " REJEC ". CHECK " and indicate below and place it in "reject" storage printout (if any).	FED-DIME ge with it's C	NSIONAL MM
	If items 1-6 are all marked <u>YES</u> , attach this inspection red out and place the board in pre-assembly storage.	cord and CM	M print
	Passed Rejected	<u></u>	
	Inspector's signature Inspection	on date:/_	/199



PAD PLANE PC Board Resistance and Continuity

S	ECTOR type: Outer Inner	Serial No	
A	fter answering each of the following o	questions please initial your	name.
1.	Are there any connector pin to ground resistances < 20 MOhm? If yes, list th		Yes, No
2.	Are any connector geographic addresse If yes, list the connector number.	es coded incorrectly?	Yes, No
3.	Does any pin lack continuity (> 4 ohms If yes, list connector address and pin no	s) to the appropriate pad? umber.	Yes, No
4.	Is the capacitance of any trace less than If yes, list the connector/pin number at	tached to the trace.	Yes, No
٠	General Comments:	•	
If inc	ISTRUCTIONS The standard of t	orage. Is inspection record and elect	
	Passed	Rejected	
Ins	pector's signature	Inspection date: _	_//199_

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STRONGBACK MACHINING DIMENSIONAL CHECK

SECT	OR type: Outer Inner Serial No	1 4 5	- ()
If this	L DIMENSIONAL CHECK Strongback has been selected for a full dimensional check, o not fill out items 1 thru 6 below. Follow instructions at the	check here _ e end of this	traveler.
	CHECK ONLY Strongback has been selected for a Spotcheck only, procee	d below.	
After	answering each of the following questions please	e initial you	ır name.
CRIT	FICAL DIMENSIONS CHECK		
OUTE	ER SECTORS: Use dwg # 24A4285 OUTER STRONGB	ACK SPOT	INSPECT
INNE	R SECTORS: Use dwg # 24A INNER STRONGBA	ACK SPOT	NSPECT
1.	Is the surface tagged -A- on this part flat within .003" in the unrestrained condition? If the answer is no, write the total variation:in	YES	
2.	Record HEIGHT measurement in 4 places indicated on Sp	otcheck dwg	:
	1in 2in 3in	4	in
	OUTER SECTORS: Does the height of the part exceed 3.	135 in?	
	INNER SECTORS: Does the height of the part exceed 3.2	95 in? YES	NO
3.	Record SIZE and LOCATION of Datum holes -X- and -Y-	.0	
	Dia hole -X-:in LOC: X	Y	
	Dia hole -Y-: in LOC: X_	Y	in
	Distance between hole -X- and hole -Y-:	_in	
	ARE the holes -X- and -Y- in within TOLERANCE and	d is the PATI	ERN
	located within TOLERANCE:		
		YES	NO

If the answer to any question 1 through 3 is <u>NO</u> discontinue the dimensional check and follow the instructions at the end of this traveler.

SECONDARY DIMENSIONS CHECK

4.	Record SIZE and LOCATION of the three nominal .2503		ern:
	HOLE #1 DIA:in	Y	
	HOLE #2 DIA:in		30
	HOLE #3 DIA:in		
	ARE the three .2503 Dia holes in TOLERANCE and True in TOLERANCE:	Position	
	III TOLLIVATOL.	YES	NO
5.	Record SIZE and LOCATION of the six each SLOTS high Spotcheck dwg:	lighted in re	d on the
	SLOT# WIDTH LENGTH X loc.	Y loc.	
	1		_
	2	32 7232 75 6 5	_
	3 1 × 11 × 11 × 11 × 11 × 11 × 11 × 11	900	
	4		
			<u>. 1</u> . 1. 1.
	6		_
Are the	e 6 SLOTS measured in TOLERANCE with respect to SIZE	and LOCAT	TON?
		NO	
6.	Record SIZE and DEPTH of the 6 each .3125-18UNC-2B	tapped HOL	ES
	HOLE #1: Go/No Go ?: LOC: X	_ Y	in
	HOLE #2: Go/No Go ?: LOC: X	_ Y	
	HOLE #3: Go/No Go ?: LOC: X HOLE #4: Go/No Go ?: LOC: X	- Y	in in
	HOLE #4: Go/No Go ?: LOC: X HOLE #5: Go/No Go ?: LOC: X HOLE #6: Go/No Go ?: LOC: X	_ Y	_in
	HOLE #6: Go/No Go ?: LOC: X	_ Y	in
	Are the 6 MOUNTING HOLES in TOLERANCE and is the in TOLERANCE.	eir LOCATI	ON
		YES	NO

INSTRUCTIONS

FULL DIMENSIONAL CHECK

If this Strongback was selected for a full dimensional check, use a copy of Dwg # 24A3925G as a checkprint. Write the Strongback serial number on the print just above the Title block. Fill out the pass-rejected line below, sign the traveler and place it and the checkprint in the folder for this Strongback

SPOT CHECK

If the answer to all items 1 thru 6 is YES, place this inspection record and the spotcheck drawing for this sector in the traveller envelope for this Strongback and place this Strongback in the pre-assembly storage.

If the answer to any items 1 thru 3 is NO, tag the Strongback "REJECTED-DIMENSIONAL CHECK", so indicate below and place in "rejected" storage.

If the answer to any items 4 thru 6 is NO, tag the Strongback "HOLD FOR RE-WORK" and place this Strongback in the to-be-reworked storage

	PASSED	REJECTED			
Inspector's Signature_		_ Inspection Date://	199		



NOTE: This is a Batch traveler

SHIE	ELD WIRE MOUNT, RIG	HT - Q.A. CH	ECK		
SHIEI	LD WIRE MOUNT RIGHT, IN	NER SECTOR. dw	g # 24A	3974	
		7	8	amount:	each
SHIEI	LD WIRE MOUNT RIGHT, OU	TER SECTOR, dw	/g #24A	3874 amount:	each
J.O. #	:	J.O. date		/199	
After	answering each of the following	g question please i	nitial y	our name.	
<u>CER</u>	TIFICATION CONFIRM	ATION			
1.	Does each part in this batch condrawing, as verified by the LBL John Wirth?.	form to the dimens inspection departs	sions and nent and	d tolerances of STAR lead	f it's tech.
				Yes	, No
IF TH	E ANSWER TO QUESTION 1 A "NO CERTIFICATION				
VISU	JAL INSPECTION				
2.	When resting on table is the dist to table less than 0.060 inches?	ance from board su	ırface	Yes	, No
CLE	ANING				
3.	Have parts been cleaned in acco (wash with Diversey 909 detergo with dry nitrogen gas, and wrapp	ent, rinse with deic	nized w	ater, blow dr	y oil)
	, j			Yes	, No

If any item (2 - 3) is marked <u>NO</u>, tag the board "REJECTED" and mark below and place it in "reject" storage. If items 2 - 3 are all marked <u>YES</u>, attach this inspection record and place the board in "pre-assembly storage".

PAS	SED	REJECTED		-	
Inchector's signature	1	Inspection date:	1	/199	